



## **CURRICULUM VITAE**

**Yasser Ezzat ARAFA**  
**Assistant Professor of Agricultural Engineering,**  
**Faculty of Agriculture, Ain Shams University**

**Nationality:** Egyptian

**Date of birth:** Aug. 1<sup>st</sup>, 1971

**Marital status:** Married with 2 kids

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### **KEY QUALIFICATIONS**

- Senior on-farm irrigation and drainage systems engineering and farm mechanization expert with over 14 years of experience in designing and developing on-farm irrigation systems and agriculture mechanization projects in Egypt.
- Served as team member in the field of on-farm irrigation and agricultural mechanization projects, financed by the USAID and Academy of Science and Technology.
- Since 2004 he has been assistant professor of on-farm irrigation and drainage systems engineering at Ain shams University, Cairo.
- Member of the Farm Machinery & Traction Machines Maintenance Unit, Agricultural Studies & Consults Center, Faculty of Agriculture, Ain Shams University.

- Member of Quality Assurance Awareness group (QAA), Quality Assurance and Accreditation Unit, Faculty of Agriculture, Ain Shams University

## EDUCATION

Ph. D., Agricultural Mechanization, Faculty of Agriculture, Ain Shams University, Cairo, Egypt, 2004.

M. Sc., Agricultural Mechanization, Faculty of Agriculture, Ain Shams University, Cairo, Egypt, 1999.

B. Sc., Agricultural Mechanization, Faculty of Agriculture, Ain Shams University, Cairo, Egypt, 1992.

## UNIVERSITY POSITIONS

|                     |            |
|---------------------|------------|
| Assistant Professor | Since 2004 |
| Assistant Lecturer  | 2000-2004  |
| Demonstrator        | 1992-1999  |

## PROFESSIONAL EXPERIENCE

- 2004 - 2006** **Quality Assurance and Accreditation for Agricultural Standardization, Researcher, Agricultural Sector Unit, Ministry of Higher Education, Egypt.** To prepare the standardization of the quality assurance of the agricultural studies allover the Egyptian Agricultural Faculties.
- 2004 - 2007** **Research member, Chemigation systems management for improving peas crop yield and quality under drought eco-system conditions, Ain Shams University, Egypt.** To investigate and apply new techniques for injecting Biofertilizers through irrigation water in order to improve crop yields and quality and eliminating environmental hazards, as well as, maximizing water and fertilizer use efficiencies under drought eco-system conditions.
- 2003 - 2006** **Minimizing of the environmental pollution with agro-chemicals by using chemigation techniques in the new lands, Assistant researcher, Regional Council for Agricultural Research and Extension, Egypt.** To study some techniques to minimize the environmental contamination with agro-chemicals by injecting them through modern irrigation systems in new lands.

mechanics (in Arabic) , Faculty of Agriculture, Ain Shams University, Egypt.

- 3- **Arafa, Y. A.**; E.A. El-Sahhar, A. A. Rafea and A. M. El-Gindy (2004). Expert system for application priorities of localized irrigation systems. *9<sup>th</sup> Conf. Agric. Dev. Res., Fac. Agric., Ain Shams Univ., Cairo*, March 22-24, 2004 (Annals Agric. Sci., Sp. Issue 1:207-218).
- 4- El-Gindy, A. M.; E.A. El-Sahhar, and **Y. A. Arafa** (2005). Localized irrigation systems design based on expert system technique, 14<sup>th</sup> Conf. of Misr Soc. of Agric. Engineering, Al-Azhar University, Cairo-Egypt.
- 5- El-Gindy, A. M.; M. G. Z. Girgis and **Y. E. Arafa** (2007). Effects of biogation technique on biofertilizers performance and tomato yield. 12<sup>th</sup> Conf. of Misr Soc. of Applied Microbiology, Agric. Res. Center, Egypt.
- 6- **Arafa, Y. E.**; E. A. El-Sahhar and M. O. El-Zakaziki (2008). Pea yield, quality and energy requirements under sprinkler irrigation system. *Annals of Agric. Sci., Mansoura Univ.*,
- 7- **Arafa, Y. E.** (2009). Fertigation management under subsurface drip irrigation system for improving tomato yield and agricultural environment. *J. of Agric. Chem. And Environ.*,
- 8- El-Tantawy, M. T.; M. A. Matter and **Y. E. Arafa** (2009). Filters and emitters performance under treated wastewater. *Isr . of Agric. Eng.*, 26(2): 886-904.
- 9- **Arafa, Y. E.**, E. A. Wasif and H. S. Mehawed (2009). Maximizing irrigation water use efficiency in wheat yields based on drip irrigation systems, *Aust. J. of Basic and Applied Sci.*,
- 10- **Arafa, Y. E.**; E. A. Wasif and M. T. El-Tantawy (2009). Impact of fertigation technique scheduling on tomato yield and quality, *Res. J. of Biol. Sci.*,
- 11- El-Zakaziki, M. O.; A. M. El-Araby; E. A. El-Sahhar and **Y. E. Arafa** (2009). Changes of some soil physical and hydrophysical characteristics in response to different sprinkler types and nozzle sizes, *Arab. Unnion J., Agric. Sc.*, 17(2):
- 12- **Arafa, Y. E.** (2009). Recent approaches for maximizing irrigation water uses and sustainable agricultural development. Congress of Arab. Food security, 17-20 Mrach, El-Khartoum, Sudan (**Review artical**).
- 13- **Arafa, Y. E.** (2009). Rationalizing irrigation water uses under arid ecosystems based on a developed criterion, *Agric. Water Manage.* (**paper in press**).

- 2001- up to now Part time advisor, Agricultural Engineering projects, Egyptian Society for Production and Environmental Projects Development,
- 1998 - 2001 Irrigation technologies for maximizing water use efficiency of field crops under drought and salinity conditions of arid soils, Assistant researcher, ATUT with the Egyptian Ministry of Agriculture. To study and determine the crop production functions for faba bean and maize crops under different levels of water irrigation requirements and its quality using both pressurized and modified surface irrigation methods.
- 1998 - 2001 Study of the priorities and possibilities of modern irrigation systems utilization in old lands of the Nile Delta and valley, Assistant researcher, The Egyptian Academy of Scientific Research & Technology. To design, develop, evaluate and disseminate the successful irrigation systems for citrus, mango and vegetable crops.

#### **ASSOCIATION MEMBERSHIPS**

- Member of Misr Society of Agricultural Engineering, since 1992
- Member of American Society for Agricultural Engineers, since 2002.
- Member of Egyptian Center for Organic Agricultural Society (ECOAs), since 1998.
- Chief board member of the Farm Machinery & Traction Machines Maintenance Unit, Agricultural Studies & Consults Center, Faculty of Agriculture, Ain Shams University, since 2000.
- Member of Egyptian Society for Production and Environmental Projects Development, since 2001.
- Member of Water Resources Conservation Society, since 2002.

#### **LATEST SCIENTIFIC PUBLICATIONS (incl. papers)**

- 1- El-Gindy, A. M.; M. M. Hegazi; M. I. Genaidy; O. A. Badier; Y. E. Arafa; and M. Z. El-Attar (2005). Applied mathematics (in Arabic) , Faculty of Agriculture, Ain Shams University, Egypt.
- 2- El-Gindy, A. M.; M. M. Hegazi; A. A. Abdel-Aziz; O. A. Badier; K. F. El-Bagoury and Y. E. Arafa (2005). Hydraulic and fluid

14- **Arafa, Y. E.** and H. S. Mehawed (2009). Identification of wheat grains quality based on descriment analysis., Misr J. of Agric. Eng., (**paper in press**)